

2016 Carbon Neutral Action Report - North Vancouver School District

Declaration Statement: This Carbon Neutral Action Report for the period January 1, 2016 to December 31, 2016 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2016 to reduce our greenhouse gas emissions, and our plans to continue reducing emissions in 2017 and beyond.

By June 30, 2017 **North Vancouver School District's** final *Carbon Neutral Action Report* will be posted to our website at www.sd44.ca

2016 Overview: Several key initiatives in 2016 contributed to our on-going commitment to reduce GHG emissions.

- Cleveland Elementary underwent a complete window retrofit, which replaced all single pane glazing with insulated double pane low-e glazing.
- The roofing and insulation system at Cove Cliff Elementary was replaced.
- Eastview Elementary underwent a boiler plant upgrade that included the installation of new high efficiency condensing boilers and “smart” heating water distribution pumps.
- Enhancements to the building control systems were made at four elementary schools: Canyon Heights, Dorothy Lynas, Ross Road and Westview.
- We continued with a continuous optimization (COp) to enhance the operation of existing building systems at five secondary schools: Sutherland, Windsor and Seycove. Carson Graham, and Arglye.

2017 Overview: A number of initiatives are underway, or have been planned for execution, in 2017:

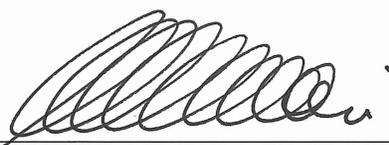
- The School District hired a full-time Sustainability and Energy Manager, whose mandate includes the development of a district-wide Greenhouse Gas reduction strategy.
- The Maintenance department rolled out a computerized maintenance management system that will reduce emissions through better maintenance vehicle route planning.
- Montroyal Elementary and Dorothy Lynas Elementary will undergo a boiler plant upgrade that includes the installation of new high efficiency condensing boilers and “smart” heating water distribution pumps.
- The roofing and insulation system in the Ridegeway Elementary demountable classroom block was replaced.
- Enhancements to the exiting building control systems will be made at the Education Services Centre.
- The COp program will continue at five secondary schools: Sutherland, Windsor and Seycove. Carson Graham, and Arglye.

Emissions and Offset Summary Table:

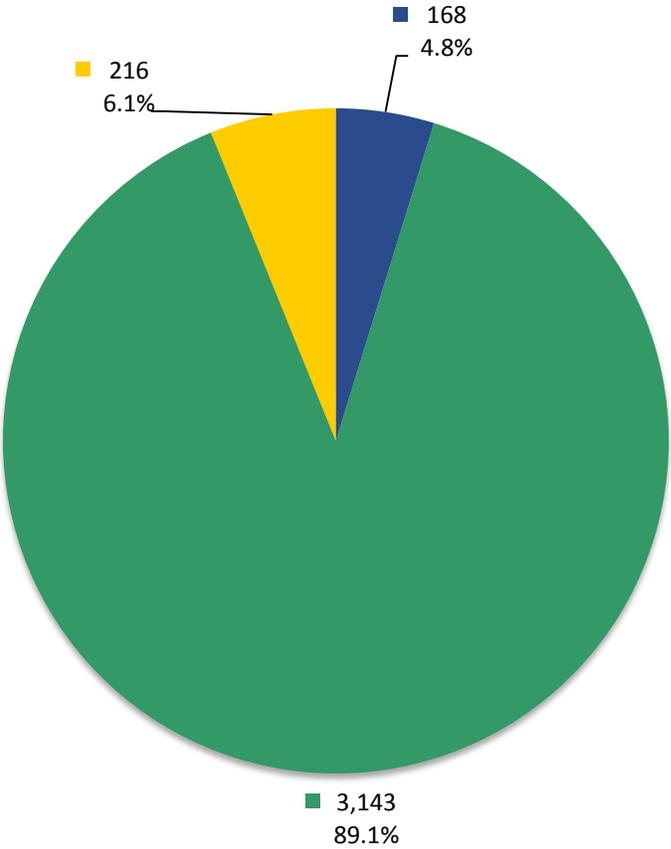
North Vancouver School District GHG Emissions and Offset for 2015 (tCO ₂ e)	
GHG Emissions created in Calendar Year 2016	
Total Emissions (tCO ₂ e)	3,527
Total Offsets (tCO ₂ e)	3,479
Adjustments to GHG Emissions Reported in Prior Years	
Total Emissions (tCO ₂ e)	13
Total Offsets (tCO ₂ e)	13
Grand Total Offsets for the 2016 Reporting Year	
Grand Total Offsets (tCO ₂ e)	3,492

Retirement of Offsets: In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, **North Vancouver School District** is responsible for arranging for the retirement of the offsets obligation reported above for the 2016 calendar year, together with any adjustments reported for past calendar years. The Organization hereby agrees that, in exchange for the Ministry of Environment ensuring that these offsets are retired on the Organization’s behalf, the Organization will pay the associated invoice to be issued by the Ministry in an amount equal to \$25 per tonne of offsets retired on its behalf plus GST.

Executive Sign-off:

	<i>May 30, 2017</i>
_____ Signature	_____ Date
Georgia Allison	Secretary Treasurer
_____ Name (please print)	_____ Title

**School District 44 - North Vancouver
Greenhouse Gas Emissions by Source
for the 2016 Calendar Year (tCO₂e*)**



Total Emissions: 3,527

- Mobile Fuel Combustion (Fleet and other mobile equipment)
- Stationary Fuel Combustion (Building Heating and Generators) and Electricity
- Supplies (Paper)

Offsets Applied to Become Carbon Neutral in 2016 (Generated May 15, 2017 4:07 PM)

Total offsets required: **3,479**. Total offset investment: **\$86,975**. Emissions which do not require offsets: **48** **

*Tonnes of carbon dioxide equivalent (tCO₂e) is a standard unit of measure in which all types of greenhouse gases are expressed based on their global warming potential relative to carbon dioxide.

** Under the *Carbon Neutral Government Regulation of the Greenhouse Gas Reduction Targets Act*, all emissions from the sources listed above must be reported. As outlined in the regulation, some emissions do not require offsets.

2016 Carbon Neutral Action Report Survey

Part One (external)

Contact Name(s):

Luke Smeaton

Organization Name:

North Vancouver School District #44

Please select your sector:

- School District

1) Stationary Sources (Buildings, Power Generators): Fuel Combustion, Electricity use, Fugitive Emissions.

During 2016, did your organization take any of the following actions to support emissions reductions from buildings?

Select all that apply

- Conducted an energy audit/study of building(s) in the organization's portfolio
- Performed energy retrofits of the organization's buildings.: 3

Briefly describe your organization's plans to continue reducing emissions from its stationary sources in future years.

Continuing with boiler retrofits, lighting upgrades, and controls optimization.

During 2016, did your organization participate in utility-sponsored energy demand management program(s) (e.g. BC Hydro's Energy Management (Manager))?

Yes

If yes, please describe briefly:

Had a BC Hydro funded consultant energy manager.

2) Mobile Sources (Vehicles, Off-road/Portable Equipment): Fuel Combustion.

During 2016, did your organization take any of the following actions to support emission reductions from its mobile sources?

Select all that apply

(No response)

Briefly describe your organization's plans to continue reducing emissions from its mobile sources in future years.

In 2017 we rolled out a computerized maintenance management system that will reduce emissions through better maintenance vehicle route planning.

3) Supplies (Paper):

During 2016, did your organization take any of the following actions to support emissions reductions from paper supplies?

Select all that apply

(No response)

Briefly describe your organization's plans to continue reducing emissions associated with its office paper use in future years.

Review printing data to identify high paper uses and develop a reduction strategy.

4) Other Sustainability Actions:

Business Travel:

During 2016, did your organization take any of the following actions to support emissions reductions from business travel?

Select all that apply

- Encouraged alternative travel for business (e.g. bicycles, public transit, walking)
-

Education Awareness:

During 2016, did your organization have any of the following programs or initiatives to support sustainability education and awareness?

Select all that apply

- Green, Sustainability or Climate Action Team
 - Support for professional development on sustainability (e.g. workshops, conferences, training)
-

Other Sustainability Actions:

During 2016, did your organization have any of the following programs or initiatives to support sustainability?

Select all that apply

- An operations policy or program to facilitate the reduction and diversion of building occupant waste (e.g., composting, collection of plastics, batteries) from landfills or incineration facilities
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